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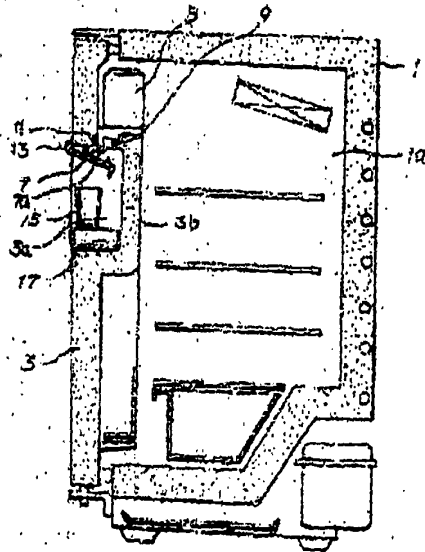
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(54) Manufacturing Apparatus for Magnetized water

#### Abstract

The present invention relates to an apparatus for manufacturing magnetized water, which comprises a main body (21), a cooling means (23) arranged on the upper part of said main body (21) for cooling water in the water bucket installed on said main body (21), an air supply equipment (25) installed on a part of said cooling means (23) in order to discharge generated heat quickly to the atmosphere by cooling action of said cooling means (23) and magnetizing means installed on the part of said main body (21) for manufacturing the magnetized water by magnetizing water in the water bucket, hereby it is applicable to manufacture the magnetized water not only in the refrigerator but also general indoors.

# Representative Drawing



## Specification

[Title of the present invention]

Manufacturing Apparatus for Magnetized water

## [Brief Description of the Drawings]

Fig. 1 is vertical sectional illustrating for a refrigerator applied the conventional manufacturing apparatus for magnetized water.

Fig. 2 is a vertical sectional illustrating of a refrigerator by example of the present invention.

Fig. 3 is constitution illustration of cooling means in Fig. 2.

\* Detailed Description for signs of the main part of the drawings

21: a main body

23: a cooling means

25: a ventilator

27: a magnetizing means

29a, 29b: N type, P type electric heating element

31a, 31b: electric heating plate

33: a fan

35: a motor

[Detailed Description of the Present Invention]

The present invention related to a manufacturing apparatus for magnetized water, particularly, a manufacturing apparatus for magnetized water comprising as enable to manufacture magnetized water not only in the refrigerator but also general indoors.

The magnetized water has a structure of oxygen atom is arranged as ring formed such as 5-angle ring form and 6-angle ring form as hydrogen atom between the one side in the water molecular, when the magnet is applied, the surface tension of the water molecule is generated.

Said magnetized water quickened the circulation of blood in human body and metabolism simultaneously so it has effectives of not only cure and prevention for urolithiasis, neuralgia, hypertension, glycosuria, arteriosclerosis, skin disease and athlete's foot but also anticancer and antiaging. In here, the water molecular arranged as 6 angles ring form in said magnetized water is (rectangular-angle arranging water) most preferable.

Otherwise, said magnetized water generated in low temperature water easily. That is, at 10 °C, the 10% of water is magnetized by proper magnetizing force however, at the 30 or 40% of water, almost water is magnetized so, as maintaining the water at low temperature not freezing, the magnetizing water is generated easily.

Therefore, the manufacturing apparatus for magnetizing water is excreted in the refrigerator and cooling the water by refrigerator conventionally, so the user drank the cold magnetized water when they needed.

The refrigerator that is applied manufacturing apparatus for magnetized water is shown in Fig. 1, the door (3) having manufacturing apparatus for magnetized water on the left side of the body (1) of the refrigerator formed cooling chamber (1a) its inside.

That is, at said door (3), the sink part (3a) is formed on the outside, the protrusion part is formed on the inside of said door (3) as compare with said sink part (3a), the cool water vessel (5) for storing cool water at the upper part of said protrusion part (3b), the discharge pipe (7) having outlet (7a) at the end to outflow water in said cool water vessel is arranged to connect with said cool water vessel (5) and valve means (9) which open and close the fluid road formed inside of said discharge pipe (7) and the magnetic element (11) to change the cool water outflow from the said discharge pipe (7) to magnetized water at said discharge pipe (7). And said outlet (7a) is protruding with

predetermined size to the direction of the low part of the sink part (3a) to drink water easily.

Further, the lever (13) is hinge combined in order to operate said valve means (9) at the upper part of said sink part (3a), and a support (17) is arranged to support the cup (15) taking outflow magnetized water through said outlet and collect the remain water at the lower part of said sink part (3a).

When take the magnetized water from the conventional manufacturing apparatus, which arranged on the refrigerator, after the cup (15) putted on upper face of said support (17), the left part of said lever (13) taken down to the downward, the right part of said lever (13) taken up and operating said valve means (9), said water road of discharge pipe is opened by said valve means (9), the cool water flowing to said outlet (7a) through said discharge pipe (7) is changed to magnetized water by magnetic element (11) and is putted in said cup (15) through said outlet (7a).

But, in order to manufacture magnetized water by using cooled water by cold temperature of refrigerator, though the conventional manufacturing apparatus for magnetized water is installed in said refrigerator independent with said refrigerator, it has a problem of unusable at outside of refrigerator. That is, manufacturing apparatus for magnetized water using at outside of refrigerator has a problem of the stored water is changed to warm water according to atmosphere temperature, so the magnetized water is hardly manufactured. Especially, said conventional manufacturing apparatus for magnetized water is nearly unusable.

Therefore, the present invention is comprises to solve the problem of the conventional techniques as mentioned above, the object of the present invention is to provide the manufacturing apparatus for magnetized water having cooling device on itself and the magnetized water manufactured easily at in the refrigerator and general indoors.

In order to achieve said object, the manufacturing apparatus for magnetized water in the present invention comprises a main body, the cooling device is arranged at upper part of said main body to cool the water putted in water bucket installed on said main body, a ventilator arranged at part of said cooling device to emit heat produced by cooling process of said cooling device promptly into the air and a magnetized means arranged at part of said main body to produce magnetized water by magnetized the putted water in

said water bucket.

The present invention is explained in detail of the present invention by preferable embodiments as below;

As shown in Fig. 2, the cooling means (23) is installed at upper part of said main body (21) to cooling water putted in water bucket (B) built in main body (21), a ventilator (25) arranged at one side of said cooling device (23) to emit heat produced by cooling process of said cooling device (23) promptly into the air and a magnetized means (27) arranged at part of said main body (21) to manufacture magnetized water by magnetized water in said water bucket (B).

Said main body (21) which comprises the base part (21a) having groove (21b) with predetermined size to insert lower part of said water bucket (21) and support part formed as unified with said base element (21) to vertical direction at the edge side of said (21a) to support said water bucket (B) at the same with said cooling element (23) and magnetized means (27) is arranged on the outer surface of said water bucket (B). In here, the guide flow road (21d) is formed at said support (21c) to discharge effectively the produced heat from the said cooling means (23) by guiding the compulsory convected air by using said ventilator (25).

Said cooling means (23) is arranged at the upper part of the support (21c) of said main body (21) in order to convect easily water stored in said bucket (B) and having a structure of plurality of the heat element (29a, 29b) is contacted continuously by electric heat plate (31a, 31b) and connected with the direct current power supply.

Said heat elements (29a, 29b) is the electric cooling semiconductor device by using peltier effect, the material is solid solution of applying the impurities to the bismuthtelluride which is compound material of bismuth and tellure, and N-type heating element (29a) and P-type heating element is connected continuously by intermediating with said electric heat plate (31a, 31b).

At this time, said electric heat plate (31a, 31b) is composed of copper, silver or aluminum for easy protection against heat and heat absorption.

Said ventilator (25) is structure of pan (3) and motor (33) which driving said pan (33) is installed at the entrance of said guide flow road (21d).

Said magnetizing means (27) is the permanent magnet, which is inserted and arranged at support part (21c) of said main body (21) to close at said water bucket (B). In here, said magnetizing means is arranged as N, S pole is parallel each other to form the magnetic field is to be vertical direction compare with direction of the convection direction of water.

Further, the operating switch (37) is arranged on said main body (21) in order to operating said cooling means (23) and ventilator (25).

Described function and effect of the manufacturing apparatus for magnetized water according to the embodiment of the present invention.

After inserting lower part of the water bucket, there is water its inside, to the groove formed at base part (21a) of the main body (21), operating the operating switch (37) to supply the power to said cooling means (23) and ventilator (25) through the undescribed electric wire, therefore, said cooling means (23) is absorbed the heat from said water bucket (B) by peltier effect and water in the bucket (B) is cooled by emitting the heat.

That is, said peltier effect is the effect of the 2 kinds of metal or semiconductor is connected and supply the electric current heat discharging and heat absorption function at the junction point, when electric current is flow from said N-type heating element (29a) to P-type heating element (29b), the heat discharging function is occurred on the junction face and when the electric current is flow from said P-type heating element (29b) to N-type heating element (29a), the heat discharging function is occurred on the junction face, so electric heating plate (31a) positioned at upper side of cooling means (23) is absorbed the heat from said water bucket (B) by the heat absorption function and the electric heating plate (31b) positioned at lower part of the cooling means (23) is discharged the absorbed heat from said heating plate (31a) by the heat discharging function.

At this time, the motor (35) of said ventilator (25) is working at the same time, the ventilation force about air by turning around the pan by power produced from said motor (35), said ventilation force is hasten the heat discharging function of said electric heat plate (31b) by circulation the air through said guide flow road (31a).

Otherwise, when water at the upper side of said water bucket (B) by said cooling means

(23), the water in the water bucket (B) is flow and cold equally by convection function such as the cool water is gone down to the lower part and hot water is gone up to the upper part.

Since the magnetized water is manufactured easily when using cold water, the convected and colded water by said cooling means (23) is changed to magnetized water by said magnetizing means (27), however, the water which circulated by convection function is to be changed the magnetized water so the magnetized water in said water bucket (B) is distributed equally.

Therefore, the manufacturing apparatus for magnetized water according to the embodiments of the present invention is the simple structure having a cooling means, it producing the magnetized water and arranged not only in the refrigerator but also general indoors easily.

As above mentioned, the manufacturing apparatus for magnetized water according to the present invention, is a simple structure, it is very utility invention as a having a cooling means and ventilator on itself so it produced and used at the not only in the refrigerator but also general indoors easily.

#### (57) Claims

1. a manufacturing apparatus for magnetized water comprises a main body (21), cooling means (23) is installed on upper part of said main body (21) to cool the water putted in water bucket (B) built in main body (21), a ventilator (25) arranged at part of said cooling device to emit heat produced by cooling process of said cooling device promptly into the air and a magnetized means (27) arranged at part of said main body (21) to manufacture magnetized water by magnetizing the water in said water bucket (B).

2. a manufacturing apparatus for magnetized water as in the claim 1, said cooling means (23) is arranged at the support part (21c) of said main body to convect stored water in said water bucket (B) easily, and a plurality of electronic heat elements (29a, 29b) is connected by electric heat plate (31a, 32b) and connected with direct current power supply.

Fig. 1

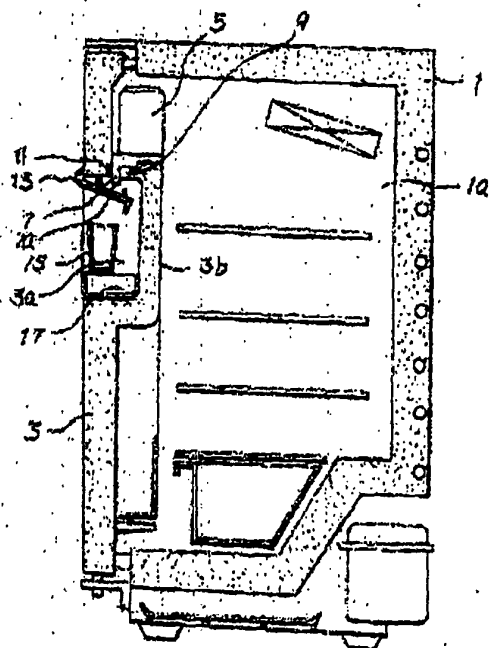


Fig. 2

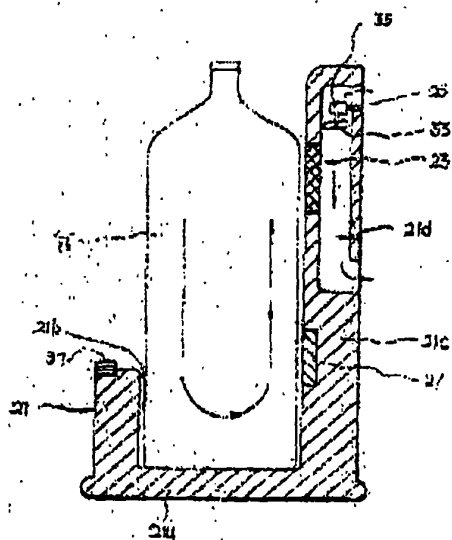


Fig. 3

